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APPARATUS AND METHOD FOR SEPARATING DETECTION AND ASSERTION OF A TRIGGER EVENT

Abstract of the Invention

A trace test and debug system for a target processor includes a trigger unit or other apparatus that permits the detection of selected events. The trigger unit receives input signals concerning the operational mode of The trigger unit is responsive to 5 the target processor. programmed input by a user. As a consequence, the trigger 7 unit can separate the detection of an event from the response to the event. In the specific example of the generated triager signals trigger unit, the separated from the actual detection of the event. This 10 capability is particularly useful when the user desires 11 that the assertion of the response to an event occurring 12 during foreground (interrupt service routine) not 13 14 permitted during the foreground code execution. The 15 assertions of the response to an event are therefore delayed until the target processor is in a background 16 17 (normal program) mode of operation. Thus, the response to an event can be separated from the detection of the event 18 under the control of the user. 19